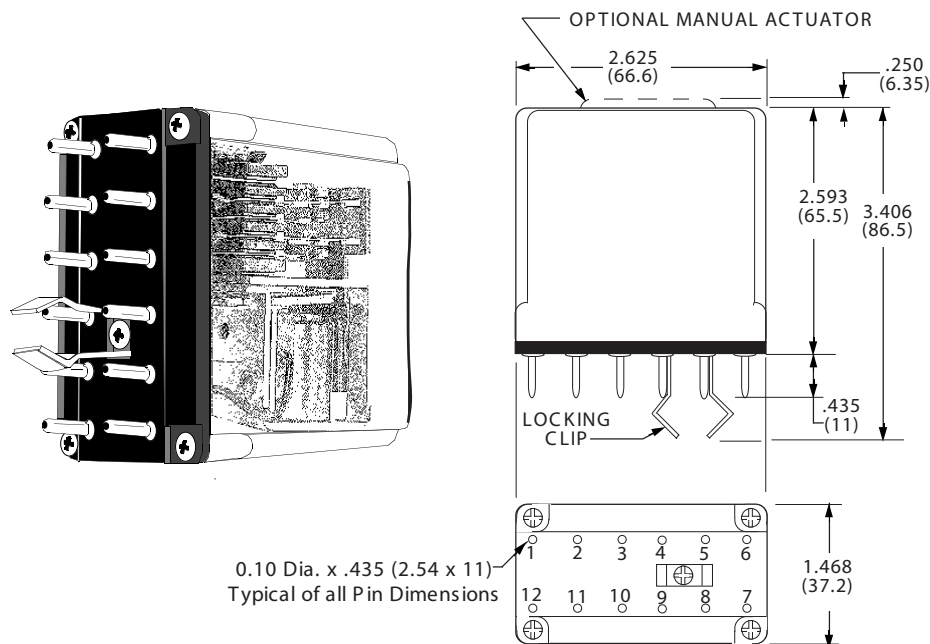
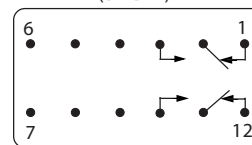


CLASS 219 INDUSTRIAL PLUG-IN RELAYS OFFER A WIDE VARIETY OF CONTACT CONFIGURATIONS ON 12 PIN AND 14 PIN BASES. THE COIL IS ENCAPSULATED FOR PROTECTION.

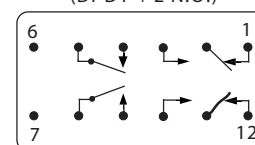


WIRING DIAGRAMS BOTTOM VIEW

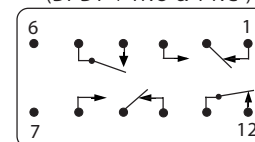
219XBP
(DPDT)



219BBXP
(DPDT + 2 N.O.)



219ABAP
(DPDT + 1NO & 1 NC)

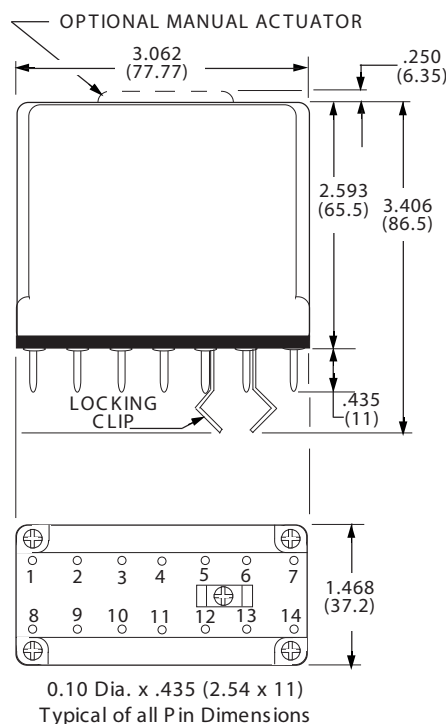


COMMONLY AVAILABLE MODELS

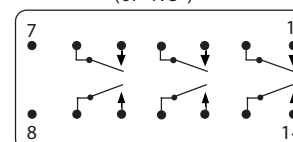
12 PIN	CONTACTS	14 PIN	CONTACTS
219BBXP	DPDT + 2 NO	219DXP	4PDT
219XBP	DPDT	219FXP	6P-NO
219ABAP	DPDT + 1 NO & 1 NC	219DXBP	4P-NO + 2P-NC

Make before break and other Contact configurations available limited only by the number of terminal pins.

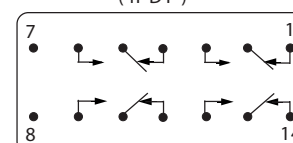
NUCLEAR QUALIFIED
VERSIONS AVAILABLE



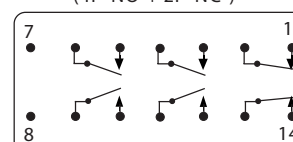
219FXP
(6P-NO)



219DXP
(4PDT)



219DXBP
(4P-NO + 2P-NC)



2, 4 OR 6 POLE, 10 AMP INDUSTRIAL RELAY

CLASS
219

219 GENERAL SPECIFICATIONS (@ 25 °C)

COIL

Pull-in, min. AC 85% of Nominal Voltage
Pull-in min. DC 80 % of Nominal Voltage
Overvoltage, max. 110% of nominal Voltage

CONTACTS

Contact Material: Silver Alloy, Gold diffused (Standard)

TIMING

Operate Time: 25 mS Max. @ Nominal Voltage.
Release Time: 20 mS Max. @ Nominal Voltage.

DIELECTRIC STRENGTH

All Mutually Insulated Points: 1500 V rms
Insulation : 1/4" over surface, 1/8" thru Air

TEMPERATURE

Rated Operation: -10 °C to +60 °C

LIFE EXPECTANCY

Mechanical: 10 Million Operations no load
Electrical: 100,000 Operations @ Rated Load.

MISCELLANEOUS

Enclosure: Clear polycarbonate.
Operating Position: Vertical, Contacts Up
Weight: 8.5 oz. (241 g) approx.

COIL SPECIFICATIONS @ 25 °C

AC RELAYS 50/60 HZ (COIL DATA @ 60HZ Voltage)					DC RELAYS, 1.8 WATTS (2.5 W @ 125VDC)			
Nominal Voltage	Resistance Ohms ± 10%	Milliamperes		Impedance Ohms	Nominal Voltage	Resistance Ohms ± 10%	Milliamperes	
		Cold	Hot				Cold	Hot
6	1.1	1500	840	7.2	6	15.5	385	304
12	4.2	750	410	27	12	63.5	189	147
24	15.5	375	200	120	24 (28)*	250	96	77
120	540	75	40	2700	32	375	86	62
240	2100	32	17	13,400	115/125*	6200	20	16

* Note: Stock 24 Vdc and 115 Vac relays have nameplates stamped 24-28 and 115-125 Vdc respectively. These relays operate at 80% of the lower voltages and operate within allowable temperature rises at higher voltages.
250 Vdc - Use 125 Vdc relay and series resistor (6000 Ω, 5 W) not supplied.

CONTACT RATINGS

VOLTS	MAKE	CARRY	BREAK	
			RESISTIVE	INDUCTIVE
24 VDC	30A	10A	10A	10A
120 VAC	30A	10A	10A	3A
240 VAC	30A	10A	5A	1A
28 VDC	30A	10A	10A	3A
125 VDC	30A	10A	0.5A	0.1A
For versions with suffix "69" Permanent Magnet Blowouts				
125 VDC SM	30A	10A	1.5A	0.5A
125 VDC DM	30A	10A	4A	1.5A
250 VDC SM	30A	10A	0.5A	150 mA
250 VDC DM	30A	10A	1.5A	0.5A

STRUTHERS-DUNN

ORDERING CODE

Typical Type No. 219 XBX P L -24D

Series _____
219 Industrial plug-in style
Contact Arrangements _____
XBX (DPDT)
ABA (DPDT + 1 Pole-NO & 1 Pole NC)
BBX (2 Pole-NO & DPDT)
XDX (4 PDT)
FXX (6 Pole-NO)
DXB (4 Pole-NO & 2 Pole-NC)

Standard Features _____
Polycarbonate Cover- CODE "P"

Optional Features _____
Indicator Lamp - CODE "L"
Manual Actuator- CODE "M"
130G Coil - CODE "U"
Bifurcated Contacts - CODE "33"
Perm. Magnet Blowout- CODE "69"

Coil Voltage _____
AC: 6, 12, 24, 120, 240 (Add "A")
DC: 6, 12, (24-28), 32, 115/125 (Add "D")
Coil Voltages & Frequencies must be specified.

MATING SOCKETS

27390D - 12 PIN
33377D - 14 PIN

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